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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/748,603 | 12/29/2003 | Richard Doil Lane | 030068 | 8659 |
| 23696 | 7590 | 08/21/2006 | EXAMINER | |
| QUALCOMM INCORPORATED 5775 MOREHOUSE DR. SAN DIEGO, CA 92121 | | | | NGUYEN, TU X |
| ART UNIT | | PAPER NUMBER | | |
| | | 2618 | | |

DATE MAILED: 08/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|------------------------|---------------------|--|
| Office Action Summary | Application No. | Applicant(s) | |
| | 10/748,603 | LANE ET AL. | |
| | Examiner | Art Unit | |
| | Tu X Nguyen | 2618 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 30 June 2006.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-7,9-27,29-41 and 43-50 is/are pending in the application.
 4a) Of the above claim(s) 8,28 and 42 is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-7,9-27,29-41 and 43-50 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ . | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

Response to Amendment

1. Applicant's amendment with respect to claims 1, 17, 34 and 47, have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-7, 9-11, 13-27, 32-41, 43 and 45-50, are rejected under 35 U.S.C. 103(a) as being obvious over Kim (US Pub. 2003/0078061) in view of McGarrahan et al. (US Pub. 2003/0026424)

Regarding claims 1 and 47, Kim discloses a communication system, comprising:
at least a broadcast center wirelessly broadcasting at least one multimedia stream (140, fig.3); and at least one wireless receiver receiving the stream over a wireless broadcast link (see par.0039), the receiver being provided with control data associated with the multimedia stream over a bidirectional wireless link (see par.0019), wherein the control data includes at least one key useful in decrypting the multimedia stream (see par.0042), data associated with a subscription to a multimedia broadcast service (see par.0037), data associated with a registration on a multimedia broadcast network, at least one application useful in decoding the multimedia data (see par.040).

Kim fails to disclose control data associated with multimedia stream includes billing information, data related to user preferences, and data related to levels of service related to providing the multimedia stream.

In the related art, McGarrahan et al. disclose control data associated with multimedia stream includes billing information (par.059), data related to user preferences (see par.036), and data related to levels of service related to providing the multimedia stream (see par.058).

Kim discloses method and apparatus for providing commercial over cellular mobile communication network; and similarly, McGarrahan et al. disclose method computer program product for delivery and utilization of content over a communication medium (see par.025, 065, 083). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Kim with the above teaching of McGarrahan et al. in order to provide cost effective data delivery to consumer (as suggested by McGarrahan, see par.074-75).

Regarding claims 17, 34 and 47, the modified Kim discloses a method for providing a multimedia stream to a wireless communication device, comprising: broadcasting the multimedia stream over a wireless broadcast channel; and transmitting over a bidirectional wireless link (see kim, fig.3), control data necessary for displaying the multimedia stream on the device (see kim, par.018).

Regarding claims 2, 20 and 35, the modified Kim discloses the bidirectional wireless link is not associated with the broadcast link (see kim, par.0033, 0053).

Regarding claims 3, 21 and 36, the modified Kim discloses the broadcast link is unidirectional (see kim, par.0033) and is characterized by at least one of: CDMA principles, GSM principles, and OFDM principles (see kim, par.0035).

Regarding claims 4, 22-23 and 37, the modified Kim discloses the bidirectional wireless link is selected from the group including: a CDMA link (see kim, par.005, "IMT-2000" reads on "CDMA), a GSM link, a 802.11 link, and a Bluetooth link.

Regarding claims 5, 24 and 38, the modified Kim discloses the bidirectional wireless link is a point-to-point wireless communication link (see kim, par.0033).

Regarding claim 6, the modified Kim discloses the receiver is a mobile communication device having at least one display for displaying the multimedia data (see kim, par.019).

Regarding claims 7 and 25, the modified Kim discloses the receiver is a mobile communication device having at least one speaker for presentation of multimedia audio data (see kim, 124, fig.4).

Regarding claims 18-19, the modified Kim discloses at least some control data is transmitted/received to the wireless device (see kim, par.033).

Regarding claims 26, 39, 40 and 49-50, the modified Kim discloses the control data includes at least one of: at least one key useful in decrypting the multimedia stream (see kim, par.0042), data associated with a subscription to a multimedia broadcast service (see kim, par.0037), data associated with a registration on a multimedia broadcast network, at least one application useful in decoding the multimedia data, billing information, data related to user preferences, and data related to levels of service related to providing the multimedia stream.

Regarding claims 9, 33 and 46, the modified Kim discloses services are ordered over the bidirectional link (see kim, par.018-019. “Commercial” reads on “ordered” with reasonable broadest interpretation).

Regarding claim 10, the modified Kim discloses products are ordered over the bidirectional link (see kim, par.019, “video signal” reads on “product”).

Regarding claims 11, 30, 43 and 48, the modified Kim discloses least one digital broadcast multimedia (DBM) controller useful at least for encrypting, encoding and/or aggregating the multimedia stream (see kim, par.0035-036, 0046, “controller” is inherently included in the system).

Regarding claims 13, 32 and 45, the modified Kim discloses control data includes data useful for indexing into the multimedia stream for channel selection and tracking (see kim, par.0046).

Regarding claim 14, the modified Kim discloses at least one network control center communicating with the DBM controller at least for receiving keys there from, the network control center communicating with the wireless receiver over the bidirectional wireless link (see kim, par.0034, 0038).

Regarding claims 15 and 41, the modified Kim discloses at least one NCC controller associated with the network control center at least for providing to receivers applications related to playing multimedia streams (see kim, par.0035).

Regarding claims 16 and 28, the modified Kim discloses at least one network operations controller (NOC) associated with the broadcast network operations center at least

for providing to receivers applications related to playing multimedia streams through a bidirectional wireless link (see kim, par.0035, 0037-0038).

Regarding claim 27, the modified Kim discloses the control data includes data associated with a subscription to a multimedia broadcast service (see kim, par.0035).

Regarding claims 29 and 42, the modified Kim discloses the control data includes data related to levels of service related to providing the multimedia stream (see kim, par.009).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 12, 31 and 44, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim in view of McGarrahan et al. and further in view of McClellan (US Pub. 2004/008794).

Regarding claims 12, 31 and 44, the modified Kim discloses decompressing (see kim, par.007). However Kim fails to disclose de-interleaving and decoding the multimedia stream.

McClellan discloses de-interleaving and decoding the multimedia stream (see par.0052, 0054). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of the modified Kim with the above teaching of McClellan in order to provide advantage for the processing modules may operate at a lower speed, or may operate at the highest speed possible and operate in parallel to achieve higher overall transceiver operation.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed Tu Nguyen whose telephone number is 571-272-7883. The examiner can normally be reached on Monday through Friday from 6:30AM-2:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



August 17, 2006